

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A luminescent device comprising a gaseous tritium light source (GTLS) within a housing, the housing being within a magnetic outer casing, the luminescent device providing a light output of pre-determinable intensity, wherein the magnetic outer casing ~~device~~ is sized and shaped to be removably fit inserted in an individual well of a standard size well plate and the light output intensity of the device is pre-determinable by calculating the half-life correction of the GTLS ~~plat for use in a light measuring apparatus, the apparatus selected from the group consisting of a luminometer, a fluorometer, a spectrophotometer, a scintillation counter, a photomultiplier, an avalanche photodiode or a CCD camera.~~
2. (Original) A device according to Claim 1, wherein the GTLS comprises 10 to 20 mCi of tritium.
3. (Previously presented) A device according to Claim 1, wherein the outer casing has at least one optically transparent or translucent portion.
4. (Canceled)
5. (Previously presented) A device according to Claim 3, wherein the transparent or translucent portion comprises a neutral density filter.
6. (Previously presented) A device according to Claim 3, wherein the transparent or translucent portion is formed from glass or plastic.
7. (Previously presented) A device according to Claim 1, wherein the device further comprises colouring means to alter the colour of the light output of the GTLS.
- 8 - 10. (Canceled)

11. (Previously presented) A device according to Claim 1, wherein said device comprises a scalebar graticule.

12. (Previously presented) A device according to Claim 1, wherein said device comprises a filter array.

13. (Previously presented) A kit comprising two or more luminescent devices according to Claim 1, each of said devices providing a light output of a distinct intensity to the other devices of said kit.

14. (Previously presented) A kit according to Claim 13, further comprising a magnetic handling tool.

15 - 17. (Canceled)

18. (Currently amended) A method of analyzing a sample, said method comprising:

(a) determining a pre-determinable light output intensity of a luminescent device comprising a gaseous tritium light source (GTLS) by calculating the half-life correction of the GTLS;

(b) fitting the placing a luminescent device according to claim 1 in an individual well of a standard size well plate;

(b) (c) placing an analyte sample in another well of the standard size well plate;

(e) (d) placing the standard size well plate in a sample holder of a light measuring apparatus;

(d) (e) measuring the intensity of light emitted by the luminescent device;

(e) (f) adjusting the a reading of light output of the light measuring apparatus to the pre-determinable light output intensity of the light output of the luminescent device; and

(f) (g) obtaining a reading of light output from the analyte sample;

wherein the luminescent device is left in the light measuring apparatus during use

so that the calibration of the light measuring apparatus machine may be tested whilst measuring the light output from the analyte sample.

19. (Currently amended) A method as claimed in Claim 18, wherein the sample comprises molecules or living cells.

20. (Canceled).

21. (Previously presented) A device according to claim 1, wherein the standard size well plate is a PCR plate, a conical well plate, or a 6, 12, 24, 36, 48, 96, 384 or 1536 well plate.

22. (Currently amended) A method for calibrating ~~an~~ a light measuring apparatus ~~according to claim 16~~ comprising the steps of:

(a) obtaining a reading of light output from ~~the~~ a luminescent device comprising a gaseous tritium light source (GTLs); and

(b) adjusting ~~the~~ a reading of light output of the light measuring apparatus to ~~a~~ the pre-determined light output intensity of the light output of the luminescent device, ~~the~~ pre-determined light output being determined by calculating the half-life correction of the GTLS;

wherein the luminescent device is removably fit into and left in a standard size well plate ~~the apparatus~~ during use so that the calibration of the light measuring apparatus machine may be tested whilst measuring the light output of an analyte sample.